

VIRTUAL LOOP CARRIER SYSTEM WITH  
CORBA INTERFACE FOR GATEWAY CONTROL

ABSTRACT OF THE DISCLOSURE

5           A loop carrier system includes a home local area network having plural  
telephone modules and a hub coupled to in-home telephone wiring. The telephone  
modules and the hub communicate voice signals over the in-home wiring in a dedicated  
frequency band above baseband POTS. The hub converts between voice signals and  
voice packets and is connected to a network access device for transferring the voice  
10   packets from the home local area network to a telecommunications network which  
routes the voice packets to a gateway. The gateway converts between the voice packets  
and a circuit format compatible with a local digital voice switch. A network element  
includes a Common Object Request Broker Architecture (CORBA)-based server,  
CORBA-based managed objects accessible by the CORBA-based server and a CORBA-  
15   based applications programming interface (API). The CORBA-based API is coupled to  
an external operations support system which can manage the plural CORBA-based  
managed objects directly.